

CENTRALELECTRONICSLIMITED
(A Public Sector Enterprise)



TENDER DOCUMENT

for the

“Supply of Multi-crystalline Solar Cells, (5 Bus Bar), Size: 156.75 x 156.75 mm +/-0.25 mm or 157 x 157 mm +/-0.25 mm, Wattage \geq 4.68 Wp”

Tender notice no. C-2(b)/RC/0700/8303/2022 dated 14-01-2022

Assistant General Manager (Materials)
Materials Management Division
Central Electronics Limited,
4, Industrial Area, Saur Urja Marg, Sahibabad-201010(UP)INDIA
Tel.No.0091-120-2895145 FaxNo.0091-120-2895148
Email: mmd@celindia.co.in Website: www.celindia.co.in



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TENDER NOTICE

Tender notice no. C-2(b)/RC/0700/8303/2020

14-01-2022

Central Electronics Limited invites ONLINE bids (Technical & Financial) from eligible bidders which are valid for a minimum period of 90 days from the date of opening (i.e., 28-01-2022) for “**Supply of Multi-crystalline Solar Cells, (5 Bus Bar), Size: 156.75 x 156.75 mm +/-0.25 mm or 157 x 157 mm +/-0.25 mm, Wattage≥ 4.68 Wp**”

Scope of Work	Supply of Multi-crystalline Solar Cells, (5 Bus Bar), Size: 156.75 x 156.75 mm +/-0.25 mm or 157 x 157 mm +/-0.25 mm, Wattage≥ 4.68 Wp
Earnest Money Deposit	NIL
Quantity	10,00,000 Nos.

Interested parties may view and download the tender document containing the detailed terms & conditions, free of cost from the website <http://etenders.gov.in/> or <http://www.celindia.co.in>

Please see important dates and Eligibility Criteria at Annexure -1.

For **CENTRAL ELECTRONICS LIMITED**

Sd-

Assistant General Manager (Materials)

Materials Management Division

Important Dates

Tender Reference No.	C-2(b)/RC/0700/8303/2022
Name of Organization	Central Electronics Limited
Tender Type (Open/Limited/EOI/Auction/Single)	OPEN
Tender Category (Services/Goods/works)	Goods
Type/Form of Contract (Work/Supply/ Auction/Service/Buy/Empanelment/Sell)	Buy
Packet System	TWO PACKET SYSTEM
Payment Mode (Online/Offline)	Offline
Date of Issue/Publishing	14-01-2022 (15:00 Hours IST)
Document Download/Sale Start Date	14-01-2022 (15:00 Hours IST)
Document Download/Sale End Date	28-01-2022 (12:00 Hours IST)
Bid submission Start Date	14-01-2022(15:00 Hours IST)
Last Date and Time for Submission of Bids	28-01-2022(12:00 Hours IST)
Date and Time of Opening of Bids	28-01-2022(15:00 Hours IST)

TENDER DOCUMENT for Tender notice no. C-2(b)/RC/0700/8303/2022**Important Instructions: -**

1.	The following documents/Annexure are part of tender document:																					
	<table border="1"> <tr> <td>i.</td> <td>Tender notice along with Annexures (eligibility criteria)</td> <td></td> </tr> <tr> <td>ii.</td> <td>Details of item, specifications.</td> <td>Annexure A</td> </tr> <tr> <td>iii.</td> <td>Standard terms & conditions (GCC)</td> <td>Annexure B</td> </tr> <tr> <td>iv.</td> <td>Special Terms & Conditions</td> <td>Annexure C</td> </tr> <tr> <td>v.</td> <td>Format for submission of Vendor Data</td> <td>Annexure D</td> </tr> <tr> <td>vi.</td> <td>Tender acceptance letter</td> <td>Annexure E</td> </tr> <tr> <td>vii.</td> <td>BOQ format for submission of price bid</td> <td>Annexure F</td> </tr> </table>	i.	Tender notice along with Annexures (eligibility criteria)		ii.	Details of item, specifications.	Annexure A	iii.	Standard terms & conditions (GCC)	Annexure B	iv.	Special Terms & Conditions	Annexure C	v.	Format for submission of Vendor Data	Annexure D	vi.	Tender acceptance letter	Annexure E	vii.	BOQ format for submission of price bid	Annexure F
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2.	Quotations shall be liable to be rejected if there is/are any deviation(s) from the specifications.																					
3.	Escalation in price, deviation from delivery schedule, terms and conditions will not be permitted in your quotation. Statutory Taxes & Duties should be shown separately from the price.																					
4.	Bidder who is Micro & Small Enterprises should enclose copy of valid Certificate of Registration with DIC or KVIC or KVIB or Coir Board or NSIC or DHH or any to her body specified by Ministry of Micro, Small and Medium Enterprises, Govt. of India to avail benefits under the "Public Procurement Policy for Micro & Small Enterprises (MSEs) Order 2012".																					
5.	Catalogue, literature, specification details should accompany the quotation. Incomplete quotations are liable to be rejected.																					
6.	Quotation should be submitted ONLINE as per instructions given in tender.																					
7.	Any deviations whether technical or commercial stated anywhere in the bid shall not be taken into account and may render the bid non-responsive and liable to be rejected.																					
8.	Vendor Data should be submitted in the Format for submission of Vendor Data as per Annexure D.																					
9.	Quotation should be submitted in TWO PACKET SYSTEM as per instructions in Annexure-C.																					
10.	In case of any ambiguity between any terms given in Standard Terms & Conditions (GCC) at Annexure B and Special Terms and Conditions at Annexure C, the terms given in Special Terms & Conditions at Annexure C will prevail and override those at Annexure B.																					
11.	Deviations from specifications, terms and conditions are not allowed. The bid of that bidder who mentions deviations anywhere in the technical bid would not be considered for price bid opening. The bid of bidder who mentions deviation in price bid would be rejected and such bidder may be barred/blacklisted for participation in future tenders.																					
12.	<p>Tender/Quotation/Bid should be submitted in Online mode on www.etenders.gov.in. Last date of receiving of tenders/quotations is as per Document Control Sheet. The following are to be submitted in your quotation duly signed and stamped on all pages:</p> <p>Part A and inline to Pre-Qualification Criteria</p> <ol style="list-style-type: none"> Filled up Format for Submission of Vendor Data as per format at Annexure D. Data sheet/catalogue clearly showing that the offered material is meeting the specifications given in the tender. Tender acceptance letter as per format at Annexure E. Original Signed and stamped tender document (photocopy document is liable to be rejected). Compliance and acceptance of all the Annexures is a must along with the documentary proof and any bid without compliance will be liable to be rejected. <p>Part B: (Financial Bid) and inline to Annexure 'F' :</p> <ul style="list-style-type: none"> ➤ Price Bid as per As per Annexure 'F' as asked in the relevant columns. 																					

GEL	CENTRAL ELECTRONICS LIMITED
	SOLAR PHOTOVOLTAIC PRODUCTION
	TECHNICAL SPECIFICATION
ITEM: MULTI CRYSTALLINE SOLAR CELL 5 BUSBAR	

Annexure-I

1. Dimension : 156.75 x 156.75 mm ± 0.25 mm or 157 x 157 mm ± 0.25 mm
2. Wattage : ≥ 4.68Wp
3. Thickness : 200 ± 20 microns.
4. Front side : Uniform Silicon Nitride (SiN) Anti-reflection coating
5. All printed fingers should meet the below specification:
 - 5.1 Shift in printing of the fingers (on front side) and pads (on front and back side) ≤ 0.25 mm along the whole length and breadth of cell from all the cell sides.
 - 5.2 Radial shift in printed fingers: ≤ 1°
6. Bow : ≤ 1.5 mm
7. Metallization
 - 7.1 Easily solderable having good adhesion/peel strength of ≥ 1 N.
 - 7.2 Metallization
 - 7.2.1 Front – Silver bus bar width of 0.8 ± 0.2 mm.
 - 7.2.2 Back – Silver bus bar width of 1.5 ± 0.3 mm and Aluminum BSF.
 - 7.2.3 Number of bus bars five (Front & Back).
8. All cells should be free from the following defects:
 - 8.1 Chipping –V shape, edge chip, corner chips.
 - 8.2 Micro cracks, pin holes and other cracks.
 - 8.3 Discontinuity of metal printing lines.
 - 8.4 Colour variation between the cells.

The vendor shall attach photographs and drawings of front and back side of the solar cell, clearly indicating all the dimensions meeting the requirements of sl. no. 7.2 given above.

PREPARED BY	CHECKED BY	APPROVED BY	ITEM : SOLAR CELL
<i>Dammam</i>	<i>[Signature]</i>	<i>[Signature]</i>	ITEM No : 1
			BOM No : 15
			REVISION: 00
			DATE : 24.12.2020
			PAGE 1 OF 7

1037 2022/01-31-VF

(2)

CENTRAL ELECTRONICS LIMITED
SOLAR PHOTOVOLTAIC PRODUCTION
TECHNICAL SPECIFICATION
ITEM: MULTI CRYSTALLINE SOLAR CELL 5 BUS BAR

10. Packing Conditions:

- 10.1. Packing should be in lots of 100 cells or as per the standard size of the vendors. Cells shall be packed tightly with heat shrinkable sleeves or polythene/polypropylene sachets. Sachets shall be packed in foam/carton boxes with soft pads on both ends or in polyethylene foam packing to absorb transit handling shocks. The final packing of the individual carton boxes shall be in an outer sealed plywood box.
- 10.2. Manufacturer name, Cell type, lot number, wattage/efficiency, quantity, month of manufacture to be identified on each primary packing. Total quantity of cells in each carton and plywood box to be displayed.
- 10.3. CEL Purchase Order (PO) Number and item description to be mentioned on the outer sealed plywood boxes.

PREPARED BY	CHECKED BY	APPROVED BY	ITEM : SOLAR CELL
<i>Deamans</i>	<i>[Signature]</i>	<i>[Signature]</i>	ITEM NO : 1
			BOM NO : 15
			REVISION: 00
			DATE : 24.12.2020
			PAGE 2 OF 7

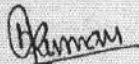
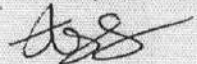
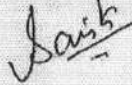
105/2022/GM-SPVP

CENTRAL ELECTRONICS LIMITED SOLAR PHOTOVOLTAIC PRODUCTION TECHNICAL SPECIFICATION ITEM: MULTI CRYSTALLINE SOLAR CELL 5 BUS BAR

Annexure-II

Eligibility Criteria:

1. Only original manufacturers or their authorized representatives with their valid authorization letter from original manufacturers are eligible to submit quotations.
2. Supplier shall confirm that the modules manufactured using the supplier's cells conform to IEC 61215 / IS 14286, IEC 61730 and IEC 62804. The aforesaid modules shall be tested in TUV or any other accredited lab.
3. The supplier must meet the conditions mentioned in Annexure-I.
4. The vendor must fill in all the details of Annexure IV. Incomplete or unclear details filled there in, shall make the bid liable for rejection.
5. Vendor should have a minimum of 30 MW/annum in-house multi crystalline solar cells manufacturing capacity.
6. CEL reserves the right to inspect the material before dispatch at manufacturer's works (Pre dispatch inspection) and/or any NABL/MNRE certified lab to check compliance of solar cells to tendered specification.

PREPARED BY	CHECKED BY	APPROVED BY	ITEM : SOLAR CELL
			ITEM NO : 1
			BOM NO : 15
			REVISION: 00
			DATE : 24.12.2020
			PAGE 3 OF 7

Documents required for Eligibility criteria

Point no. 1: Certificate ISO 9001/14001/Factory Registration certificate to be enclosed with the technical bid.

Point no. 2: Declaration on their letter head duly signed with stamp by authorized signatory to be enclosed with the technical bid.

Point no. 3: Compliance of Annexure-I (Technical specification) along with technical data sheet of product to be enclosed with the technical bid.

Point no. 4: Compliance of Annexure-IV duly signed with stamp by authorized signatory to be enclosed with the technical bid.

Point no. 5: Certificate from any reputed certified agency/declaration on their letter head with sign and stamp by authorized signatory to be enclosed with the technical bid.

Point no. 6: Acceptance on their letter head to be enclosed with the technical bid.